

Littleton, Massachusetts
Public Water System Monitoring
Contact: Town of Littleton, Town clerk
(508)952-2314
General Ordinance
Adopted: 1986

TOWN BYLAW: PUBLIC WATER SYSTEM MONITORING

1. Authority. This bylaw is adopted under the authority of Section 21 paragraph (1) of Chapter 40, G.L., to assure advance warning of potential adverse water quality changes.
2. Applicability. This bylaw shall apply with regard to any public water system providing water supplies to users within the Town of Littleton.
3. Definitions. "Commissioners" shall mean the Littleton Board of Water Commissioners or, for public water systems under authority of other organizations, the agency or individual exercising executive authority.
4. Alerting. Any Town official who becomes aware of a contamination threat to public water supplies through accident, materials storage or disposal or other cause shall forthwith orally notify the Commissioners and the Board of Health, specifying the location and nature of the threat, and shall follow that oral notification with a written notice to each agency within two working days.
5. Emergency Monitoring. Upon determination that a threat to public water supplies does exist, the Commissioners shall institute as many of the following steps as are appropriate to assure avoidance of contamination.
 - (a) Contact the Owners and managers of any premises on which the presumptive contamination source lies in order to solicit their cooperation, to inform them of actions which the Commissioners may take, and to gain information regarding the nature of the operations on the premises, to obtain an inventory of toxic and hazardous materials employed, and to learn of any possible malfunctions or anomalies.
 - (b) Institute special sampling of water supplies at the affected production wells, and test for the suspected contaminants and/or key indicators of chemical contamination.
 - (c) Install monitoring wells downgradient from the contaminant source at a distance and depth calculated to intercept the pollutant plume, if any. Draw and test samples from those monitoring wells.

If the Board of Health or the Hazardous Waste Coordinator recommend in writing the initiation of these steps, the Commissioners shall within five working days of receipt of such notice by any one of the Commissioners respond in writing outlining the steps being taken or, if none are being

taken, the reasons therefor.

6. Supplemental Monitoring. Analyses are to be conducted by the Commissioners on water samples from each production well and selected surface waters furnishing recharge to existing and potential future well sites. The analyses are to be conducted in addition to ongoing analyses of samples from existing production wells which are required by state law and are routinely conducted according to DEQE regulations. The following monitoring program is not intended to replace or modify such existing monitoring of water supplies.

The supplemental monitoring samples are to be obtained during regular April and October monitoring rounds. Beaver Brook is to be sampled at Route 2 and at Great Road (Route 119). Bennetts Brook is to be sampled upstream and downstream of the Town landfill and at Gilson Brook at Great Road (Route 119).

Analyses. Samples from all of the surface water sampling points shall be analyzed for the following as a minimum:

- a. Specific conductance
- b. Total dissolved solids
- c. Chloride
- d. Nitrate nitrogen
- e. Ammonia nitrogen
- f. Sodium
- g. Iron

Additionally, selected points shall be monitored for potential organic chemical contamination. The organic chemical monitoring shall be as follows:

(a) Volatile organic scan*: Annually (in October) from each town production well; Beaver Brook at Route 119; and Gilson Brook at Route 119. April and October from monitoring wells downgradient from industrial/commercial septic systems adjacent to Well no. 2.

(b) Pesticides. Scan* of pesticides and PCB's to be conducted annually (in October) on samples from Beaver Brook at Route 119 and Gilson Brook at Route 119.

7. Right of Entry. If necessary to execute the above responsibilities, the Commissioners shall exercise the authority given them under Section 39D of Chapter 40, G.L., to enter upon private lands to make surveys and test borings.

8. Suspension. The operation of any of the foregoing may be suspended by the Commissioners where, either with the concurrence of the Board of Health or following a public hearing with notice given, the Commissioners determine that such suspension poses no substantial threat to water quality, or that literal compliance with the terms of the bylaw is infeasible, or that alternative means proposed can more effectively assure advance warning of potentially adverse water quality changes.